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Atty. Dkt. No. 053969-0160

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Hiroaki KUWANO, et al.

Title: MOBILE COMMUNICATION SYSTEM, RADIO  
TERMINAL USED THEREFOR, RADIO  
NETWORK CONTROLLER AND OPERATION  
CONTROL METHOD THEREFOR

Appl. No.: 10/747,962

Filing Date: 12/31/2003

Examiner: Karikari, Kwasi

Art Unit: 2686

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 CFR §1.56**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56.

A copy of each non-U.S. patent document is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

**TIMING OF THE DISCLOSURE**

The listed documents are being submitted in compliance with 37 CFR §1.97(b), before the mailing date of the first Office Action on the merits, and within three (3) months of the mailing date of the foreign search report.

**CONCISE EXPLANATION OF RELEVANCE**

The documents listed on the attached PTO/SB/08 were cited as being relevant during the prosecution of the corresponding Chinese application. A partial English translation of the Chinese Office Action of September 23, 2005, follows:

Claim 1 seeks to protect a mobile communication system having a function of delivering data of an identical service to a plurality of radio terminals, wherein information for paging with respect to a radio terminal, which receives delivery of the service, is generated using identification information peculiar to the service. The reference 1 (hereinafter referred to as "Ref.1") (CN1175866A) discloses a mobile communication system, particularly discloses the following features (see Pages 1-2 of the specification and Figs 1A-1C): a GSM network is configured with a plurality of mobile stations which may be a communications terminal unit such as, for example, a telephone, portable computer etc (which can also be referred to as a user, a radio terminal, etc.). An international mobile station identity (IMSI) is uniquely assigned to each mobile station. A base station controller is provided at the center of one wireless communications zone (cell), and transmits and receives wireless data to and from the mobile station. A base station controller is provided for each service area, and is connected to a plurality of base transceiver stations. The base station controller manages a wireless channel, manages a hand-over, controls a monitoring process, and manages the base transceiver station and mobile station independent of a mobile switching center. In transmission of service, a mobile station (a radio terminal) is normally called using an identification number referred to as a "temporary mobile station identity" (equivalent to the identification information peculiar to the service revealed in claim 1). The mobile switching center recognizes which base transceiver station should be used in calling the mobile station when it receives a request to establish a call to the mobile station (a call-in to be received by the mobile station), and transmits a calling instruction to only the aforesaid base transceiver station. The base transceiver station which has received the calling instruction calls the mobile station by wireless using the temporary mobile station identity (TMSI).

Claim 5 seeks to protect a radio network controller in a mobile communication system having the same function as that of claim 1, comprising means for generating information for paging with respect to a radio terminal, which receives delivery of the service, by using identification information peculiar to the service. As compared to claim 1, claim 5 only further defines the generation of the paging information. However, Ref.1 also discloses that

the paging information received by the radio terminal is generated under the control of the radio network controller for managing the base stations and the radio terminals (or a particular means thereof).

The additional technical features of claims 2 and 4 are further definition to the paging processing in claim 1. For a person skilled in the art, it has been specified by the current 3GPP communication standard TS25.304 that in a radio channel between a Node B and a UE, a paging signal is mapped to an S-CCPCH (Secondary-Common Control Channel) which is a common channel in the downlink direction; a signal accompanying this signal is a PICH (Paging Indicator Channel) and is a signal for notifying presence or absence of incoming call information for each paging group (incoming call group). RNC can set the paging signal at a specific timing, instruct a Node B (radio base station) of a result of calculation, and determine a paging identifier PI as information necessary for generating the signal accompanying the paging signal.

Applicant's statements regarding the Chinese Office Action are based on a partial translation that Applicant's representative obtained. These statements should in no way be considered as an agreement by Applicant with, or an admission of, what is asserted in the Chinese Office Action.


An English abstract is provided for the non-English reference. Applicant respectfully requests that each listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741.

Respectfully submitted,

Date November 21, 2005

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Substitute for form 1449B/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  Date Submitted: November 21, 2005 <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				<b>Application Number</b>	10/747,962
				<b>Filing Date</b>	12/31/2003
				<b>First Named Inventor</b>	Hiroaki KUWANO
				<b>Group Art Unit</b>	2686
				<b>Examiner Name</b>	Karikari, Kwasi
				<b>Attorney Docket Number</b>	053969-0160
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U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	C1	EP	827354	A2	FUJITSU LIMITED	03/04/1998		
	C2	CN	1175866	A	FUJITSU LTD	03/11/1998		A

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>

<b>Examiner Signature</b>	<b>Date Considered</b>	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

<sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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